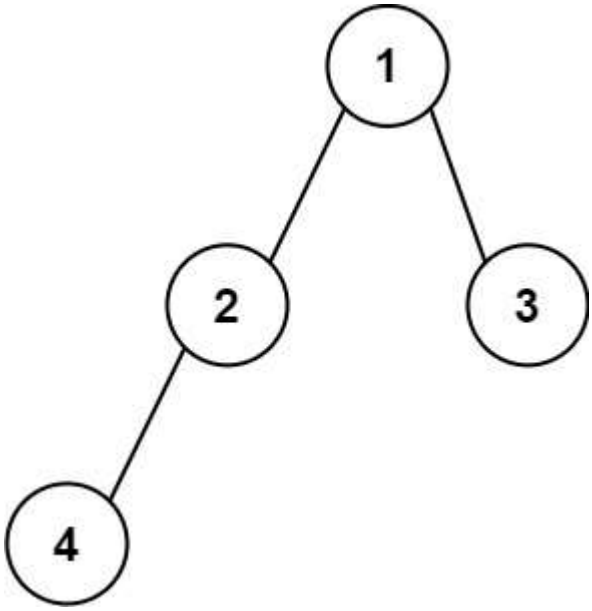
Construct String from Binary Tree (View)

Given the `root` of a binary tree, construct a string consisting of parenthesis and integers from a binary tree with the preorder traversal way, and return it.

Omit all the empty parenthesis pairs that do not affect the one-to-one mapping relationship between the string and the original binary tree.

Example 1:

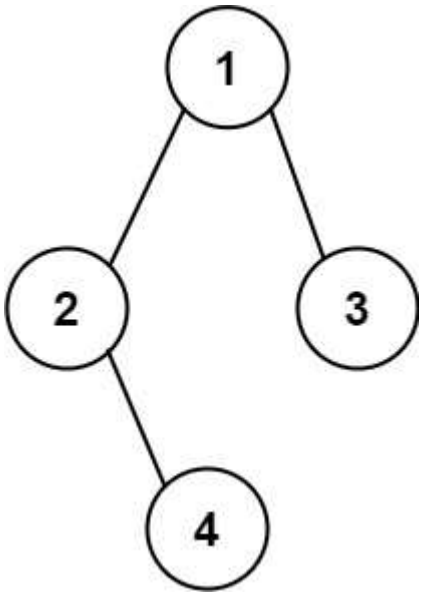



```
Input: root = [1,2,3,4]

Output: "1(2(4))(3)"

Explanation: Originally, it needs to be "1(2(4)())(3()())", but you need to omit
all the unnecessary empty parenthesis pairs. And it will be "1(2(4))(3)"
```

Example 2:




```
Input: root = [1,2,3,null,4]

Output: "1(2()(4))(3)"

Explanation: Almost the same as the first example, except we cannot omit the first
parenthesis pair to break the one-to-one mapping relationship between the input
and the output.
```

Constraints:

- The number of nodes in the tree is in the range `[1, 10⁴]`.
- `-1000 <= Node.val <= 1000`